

Crawford County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/25/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 21 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Crawford County economy.¹

These 21 sectors have a total direct output of approximately \$594.4 million and support 1,856 jobs in Crawford County. Running the model for all 21 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Crawford County Economy						
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	
Direct Effect	1856.0	7.89%	\$109,434,527	7.49%	\$594,382,546	
Indirect Effect	687.9	2.92%	\$48,583,071	3.32%	\$100,834,198	
Induced Effect	316.3	1.34%	\$19,458,870	1.33%	\$36,718,102	
Total Effect	2860.2	12.15%	\$177,476,468	12.14%	\$731,934,847	

As shown in the above table, agriculture, food, and food processing sectors support 2,860 jobs, or 12.15% of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 21 agriculture, food, and food processing sectors is approximately \$177.5 million, or 12.14% of the GRP.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **527 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Crawford County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	526.7	\$42,403,962		
Meat processed from carcasses	511.7	\$252,100,576		
Wholesale trade	234.6	\$35,064,424		
Dog and cat food manufacturing	107.6	\$134,819,506		
Grain farming	97.2	\$24,760,193		
Support activities for agriculture and forestry	96.2	\$993,190		
Landscape and horticultural services	95.9	\$4,112,544		
All other crop farming	92.0	\$5,008,597		
Management of companies and enterprises	81.6	\$14,449,561		
Bread and bakery product, except frozen, manufacturing	72.4	\$9,939,331		

The meat processed from carcasses sector directly contributes approximately \$252.1 million to the Crawford County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Meat processed from carcasses	511.7	\$252,100,576		
Dog and cat food manufacturing	107.6	\$134,819,506		
Other animal food manufacturing	50.5	\$63,661,843		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	526.7	\$42,403,962		
Wholesale trade	234.6	\$35,064,424		
Oilseed farming	34.8	\$25,491,787		
Grain farming	97.2	\$24,760,193		
Dairy cattle and milk production	46.0	\$15,312,328		
Management of companies and enterprises	81.6	\$14,449,561		
Bread and bakery product, except frozen, manufacturing	72.4	\$9,939,331		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Crawford County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	34.8	\$25,491,786.96		
Grain farming	97.2	\$24,760,192.87		
Vegetable and melon farming	0.5	\$89,225.26		
Fruit farming	3.2	\$232,895.21		
Tree nut farming	1.2	\$161,672.28		
Greenhouse, nursery, and floriculture production	8.2	\$1,012,683.39		
All other crop farming	92.0	\$5,008,597.37		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	526.7	\$42,403,961.18		
Dairy cattle and milk production	46.0	\$15,312,327.38		
Poultry and egg production	0.4	\$230,302.91		
Animal production, except cattle and poultry and eggs	8.7	\$757,127.52		
Commercial hunting and trapping	11.7	\$229,445.73		
Support activities for agriculture and forestry	96.2	\$993,189.57		
Dog and cat food manufacturing	107.6	\$134,819,503.78		
Other animal food manufacturing	50.5	\$63,661,842.35		
Meat processed from carcasses	511.7	\$252,100,585.94		
Bread and bakery product, except frozen, manufacturing	72.4	\$9,939,330.10		
Frozen cakes and other pastries manufacturing	1.5	\$239,375.23		
All other industrial machinery manufacturing	32.8	\$7,543,425.08		
Veterinary services	56.8	\$5,282,536.51		
Landscape and horticultural services	95.9	\$4,112,544.06		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Crawford County, the retail sector was omitted.